Table 1
Coordination with appropriate agencies

Coordinating Agencies[1,2]	Participated in developing the plan	Commented on the draft	Attended public meetings	Was contacted for assistance	Was sent a copy of the draft plan	Was sent a notice of intention to adopt	Not involved / No information
Other water suppliers	X	X		X	X	X	
Water mgmt agencies	X	X		X	X	X	
Relevant public agencies	X	X		X	X		
General public					X		
Other					X		

[1] *Indicate the specific name of the agency with which coordination or outreach occurred.*
[2] *Check at least one box in each row.*

Table 2
Population — current and projected

	2010	2015	2020	2025	2030	2035 - optional	Data source[2]
Service area population[1]	26,066	27,369	28,738	30,175	31,683		Ca. DOF +.5%

[1] *Service area population is defined as the population served by the distribution system. See Technical Methodology 2: Service Area Population (2010*
[2] *Provide the source of the population data provided.*

Table 3
Water deliveries — actual, 2005

	2005				
	Metered		Not metered		Total
Water use sectors	# of accounts	Volume	# of accounts	Volume	Volume
Single family	7,877	1,659			1,659
Multi-family	700	**438**			438
Commercial	998	**881**			881
Industrial	117	**214**			214
Institutional/governmental					0
Landscape					0
Agriculture					0
Other					0
Total	9,692	3,192	0	0	3,192

Units (circle one): acre-feet per year million gallons per year cubic feet per year

Table 4
Water deliveries — actual, 2010

	2010				
	Metered		Not metered		Total
Water use sectors	# of accounts	Volume	# of accounts	Volume	Volume
Single family	7,902	1,459			1,459
Multi-family	758	**411**			411
Commercial	1,192	**1079**			1,079
Industrial	NA				0
Institutional/governmental	NA				0
Landscape	NA				0
Agriculture	NA				0
Other	NA				0
Total	9,852	2,949	0	0	2,949

Units (circle one): acre-feet per year million gallons per year cubic feet per year

Table 5
Water deliveries — projected, 2015

	2015				
	Metered		Not metered		Total
Water use sectors	# of accounts	Volume	# of accounts	Volume	Volume
Single family	8,099	1,620			1,620
Multi-family	777	**451**			451
Commercial	1,222	**1160**			1,160
Industrial					0
Institutional/governmental					0
Landscape					0
Agriculture					0
Other					0
Total	10,098	3,231	0	0	3,231

Units (circle one): acre-feet per year million gallons per year cubic feet per year

Table 6
Water deliveries — projected, 2020

	2020				
	Metered		Not metered		Total
Water use sectors	# of accounts	Volume	# of accounts	Volume	Volume
Single family	8,301	1,660			1,660
Multi-family	796	**462**			462
Commercial	1,253	**1190**			1,190
Industrial					0
Institutional/governmental					0
Landscape					0
Agriculture					0
Other					0
Total	10,350	3,312	0	0	3,312

Units (circle one): acre-feet per year million gallons per year cubic feet per year

Table 7
Water deliveries — projected 2025, 2030, and 2035

	2025 metered		2030 metered		2035 - optional metered	
Water use sectors	# of accounts	Volume	# of accounts	Volume	# of accounts	Volume
Single family	8,509	1,702	8,722	1,744		
Multi-family	816	**473**	836	**485**		
Commercial	1,284	**1220**	1,316	**1250**		
Industrial						
Institutional/governmental						
Landscape						
Agriculture						
Other						
Total	10,609	3,395	10,874	3,479	0	0

Units (circle one): acre-feet per year million gallons per year cubic feet per year

Table 8
Low-income projected water demands

Low Income Water Demands[1]	2015	2020	2025	2030	2035 - opt
Single-family residential	794	813	853	896	
Multi-family residential	1,725	1,765	1,853	1,946	
Total	2,519	2,578	2,706	2,842	0

Units (circle one): acre-feet per year million gallons per year cubic feet per year
[1] Provide demands either as directly estimated values or as a percent of demand.

Table 9
Sales to other water agencies

Water distributed	2005	2010	2015	2020	2025	2030	2035 - opt
Humboldt Community Services District	475	445	522	522	522	522	
name of agency							
name of agency							
Total	475	445	522	522	522	522	0

Units (circle one): acre-feet per year million gallons per year cubic feet per year

Table 10
Additional water uses and losses

Water use[1]	2005	2010	2015	2020	2025	2030	2035 -opt
Saline barriers	**NA**	NA	NA	NA	NA	NA	
Groundwater recharge	**NA**	NA	**NA**	**NA**	**NA**	NA	
Conjunctive use	**NA**	NA	**NA**	**NA**	**NA**	NA	
Raw water	**NA**	NA	**NA**	**NA**	**NA**	NA	
Recycled water	**NA**	NA	**NA**	**NA**	**NA**	NA	
System losses	**505**	836	**752**	**677**	**609**	548	
Other (define)	**NA**	NA	NA	NA	NA	NA	
Total	505	836	752	677	609	548	0

Units (circle one): acre-feet per year million gallons per year cubic feet per year
[1] Any water accounted for in Tables 3 through 7 are not included in this table.

Table 11
Total water use

Water Use	2005	2010	2015	2020	2025	2030	2035 - opt
Total water deliveries (from Tables 3 to 7)	**3192**	2,949	**3231**	**3312**	**3395**	3,479	
Sales to other water agencies (from Table 9)	**475**	445	**522**	**522**	**522**	522	
Additional water uses and losses (from Table 10)							
Total	3,667	3,394	3,753	3,834	3,917	4,001	0

Units (circle one): acre-feet per year million gallons per year cubic feet per year

Table 12
Retail agency demand projections provided to wholesale suppliers

Wholesaler	Contracted Volume[3]	2010	2015	2020	2025	2030	2035 -opt
Hum.Bay Muni.Water Dist.	N/A	4856	4977	5101	5229	5360	

Table 13
Base period ranges

Base	Parameter	Value	Units
10- to 15-year base period	2008 total water deliveries	3082	*see below*
	2008 total volume of delivered recycled wate	0	*see below*
	2008 recycled water as a percent of total del	0	percent
	Number of years in base period[1]	10	years
	Year beginning base period range	2001	
	Year ending base period range[2]	2010	
5-year base period	Number of years in base period	5	years
	Year beginning base period range	2006	
	Year ending base period range[3]	2010	

Units (circle one): acre-feet per year million gallons per year cubic feet per year
[1] If the 2008 recycled water percent is less than 10 percent, then the first base period is a continuous 10-year period. If the amount of recycled water delivered in 2008 is 10 percent or greater, the first base period is a continuous 10- to 15-year period.
[2] The ending year must be between December 31, 2004 and December 31, 2010.
[2] The ending year must be between December 31, 2007 and December 31, 2010.

Table 14
Base daily per capita water use — 10- to 15-year range

Base period year		Distribution System Population	Daily system gross water use (mgd)	Annual daily per capita water use (gpcd)
Sequence Year	Calendar Year			
Year 1	2001	26,134	3.617	138
Year 2	2002	26,182	3.619	138
Year 3	2003	26,309	3.219	122
Year 4	2004	26,378	3.230	122
Year 5	2005	26,360	3.301	125
Year 6	2006	26,327	3.266	125
Year 7	2007	26,083	3.329	128
Year 8	2008	26,031	3.321	128
Year 9	2009	25,994	3.378	130
Year 10	2010	26,066	3.370	129
Year 11				
Year 12				
Year 13				
Year 14				
Year 15				
			Base Daily Per Capita Water Use[1]	128.5

[1] Add the values in the column and divid by the number of rows.

Table 15
Base daily per capita water use — 5-year range

Base period year		Distribution System Population	Daily system gross water use (mgd)	Annual daily per capita water use (gpcd)
Sequence Year	Calendar Year			
Year 1	2006	26,227	3.266	125
Year 2	2007	26,083	3.329	128
Year 3	2008	26,031	3.321	128
Year 4	2009	25,994	3.378	130
Year 5	2010	26,066	3.370	129
			Base Daily Per Capita Water Use[1]	128

[1] Add the values in the column and divid by the number of rows.

Table 16
Water supplies — current and projected

Water Supply Sources		2010	2015	2020	2025	2030	2035 - opt
Water purchased from[1]:	Wholesaler supplied volume (yes/no)						
Humboldt Bay Municipal Water District	yes						
Wholesaler 2 (enter agency name)							
Wholesaler 3 (enter agency name)							
Supplier-produced groundwater[2]							
Supplier-produced surface water							
Transfers in							
Exchanges In							
Recycled Water							
Desalinated Water							
Mad River Storage and Diversions		84,000	84,000	84,000	84,000	84,000	
Other							
Total		**84,000**	**84,000**	**84,000**	**84,000**	**84,000**	**0**

Units (circle one): acre-feet per year million gallons per year cubic feet per year
[1] Volumes shown here should be what was purchased in 2010 and what is anticipated to be purchased in the future. If these numbers differ from what is contracted, show
[2] Volumes shown here should be consistent with Tables 17 and 18.

Table 17
Wholesale supplies — existing and planned sources of water

Wholesale sources[1,2]	Contracted Volume[3]	2015	2020	2025	2030	2035 - opt
Humboldt Bay Muni.Water Dist.	6994	6,994	6,994	6,994	6,994	
(source 2)						
(source 3)						

Units (circle one): acre-feet per year million gallons per year cubic feet per year
[1] Water volumes presented here should be accounted for in Table 16.
2 If the water supplier is a wholesaler, indicate all customers (excluding individual retail customers) to which water is sold. If the water supplier is a retailer, indicate each wholesale supplier, if more than one.
[3] Indicate the full amount of water

Table 18
Groundwater — volume pumped

Basin name(s)	Metered or Unmetered[1]	2006	2007	2008	2009	2010
		N/A	N/A	N/A	N/A	N/A
Total groundwater pumped						
Groundwater as a percent of total water supply						

Units (circle one): acre-feet per year million gallons per year cubic feet per year
[1] Indicate whether volume is based on volumeteric meter data or another method

Table 19
Groundwater — volume projected to be pumped

Basin name(s)	2015	2020	2025	2030	2035 - opt
	N/A	N/A	N/A	N/A	
Total groundwater pumped					
Percent of total water supply					

Units (circle one): acre-feet per year million gallons per year cubic feet per year
Include future planned expansion

Table 20
Transfer and exchange opportunities

Transfer agency	Transfer or exchange	Short term or long term	Proposed Volume
	N/A	N/A	N/A
Total			

Units (circle one): acre-feet per year million gallons per year cubic feet p

Table 21
Recycled water — wastewater collection and treatment

Type of Wastewater	2005	2010	2015	2020	2025	2030	2035 - opt
Wastewater collected & treated in service area	7,270	5,852	6,442	6,603	6,768	6,937	
Volume that meets recycled water standard	7,270	5,852	6,442	6,603	6,768	6,937	

Units (circle one): acre-feet per year million gallons per year cubic feet p

Table 22
Recycled water — non-recycled wastewater disposal

Method of disposal	Treatment Level	2010	2015	2020	2025	2030	2035 - opt
Discharge to Humboldt Bay	Secondary	5,768	6,358	6,519	6,684	6,853	
Name of method							
Name of method							
Name of method							
	Total	5,768	6,358	6,519	6,684	6,853	0

Units (circle one): acre-feet per year million gallons per year cubic feet p

Table 23
Recycled water — potential future use

User type	Description	Feasibility[1]	2015	2020	2025	2030	2035 - opt
Agricultural irrigation							
Landscape irrigation[2]	Treatment plant irrigation		56	56	56	56	
Commercial irrigation[3]							
Golf course irrigation							
Wildlife habitat							
Wetlands							
Industrial reuse	Engine coolin water at WWTP		28	28	28	28	
Groundwater recharge							
Seawater barrier							
Getothermal/Energy							
Indirect potable reuse							
Other (user type)							
Other (user type)							
	Total	0	84	84	84	84	0

Units (circle one): acre-feet per year million gallons per year cubic feet per year
feasibility.
[2] Includes parks, schools, cemeteries, churches, residential, or other public facilities)
building use such as

Table 24
Recycled water — 2005 UWMP use projection compared to 2010 actual

Use type	2010 actual use	2005 Projection for 2010[1]
Agricultural irrigation	56	56
Landscape irrigation[2]		
Commercial irrigation[3]		
Golf course irrigation		
Wildlife habitat		
Wetlands		
Industrial reuse	28	28
Groundwater recharge		
Seawater barrier		
Getothermal/Energy		
Indirect potable reuse		
Other (user type)		
Other (user type)		
Total	84	84

Units (circle one): acre-feet per year million gallons per year cubic feet per year
[1] From the 2005 UWMP. There has been some modification of use types. Data from the
[2] Includes parks, schools, cemeteries, churches, residential, or other public facilities)
[3] Includes commercial building use such as landscaping, toilets, HVAC, etc) and

Table 25
Methods to encourage recycled water use

Actions	Projected Results					
	2010	2015	2020	2025	2030	2035 - opt
Grants /Monetary incentives , Free recycled water	0	0	210	220	230	
name of action						
name of action						
Total	0	0	210	220	230	0

Units (circle one): acre-feet per year million gallons per year cubic feet per year

Table 26
Future water supply projects

Project name[1]	Projected start date	Projected completion	Potential project	Normal-year supply[3]	Single-dry year	Multiple-dry year first year	Multiple-dry year second	Multiple-dry year third year
None currently planned								
Total			0	0	0	0	0	0

Units (circle one): acre-feet per year million gallons per year cubic feet per year

[1] Water volumes presented here should be accounted for in Table 16.

2Indicate whether project is likely to happen and what constraints, if any, exist for project implementation.

[3] Provide estimated supply benefits, if available.

Table 27
Basis of water year data

Water Year Type	Base Year(s)
Average Water Year	1989
Single-Dry Water Year	1977
Multiple-Dry Water Years	1990,91,92

Table 28
Supply reliability — historic conditions

Average / Normal Water Year	Single Dry Water Year	Multiple Dry Water Years			
		Year 1	Year 2	Year 3	Year 4
982,600	109,107	571,815	371,340	282,794	
Percent of Average/Normal Year:	11.1%	58.2%	37.8%	28.8%	

Table 29
Factors resulting in inconsistency of supply

Water supply sources[1]	Specific source name, if any	Limitation quantification	Legal	Environmental	Water quality	Climatic	Additional information
Mad River Storage and Diversions	Ruth Res.	84,000 AF/Y	0	0	0	0	

Units (circle one): acre-feet per year million gallons per year cubic feet per year

[1] From Table 16.

Table 30
Water quality — current and projected water supply impacts

Water source	Description of condition	2010	2015	2020	2025	2030	2035 - opt
Mad River Storage and Diversio		0	0	0	0	0	

Units (circle one): acre-feet per year million gallons per year cubic feet per year

Table 31
Supply reliability — current water sources

Water supply sources[1]	Average / Normal Water Year Supply[2]	Multiple Dry Water Year Supply[2]		
		Year 2011	Year 2012	Year 2013
Mad River Storage and Diversions	982,600	571,815	371,340	282,794
Percent of normal year:		58.2%	37.8%	28.8%

Units (circle one): acre-feet per year million gallons per year cubic feet per year

[1] From Table 16.

[2] See Table 27 for basis of water type years.

Table 32
Supply and demand comparison — normal year

	2015	2020	2025	2030	2035 - opt
Supply totals (from Table 16)	84,000	84,000	84,000	84,000	
Demand totals (From Table 1	12,762	18,759	18,196	25,271	
Difference	71,238	65,241	64,804	58,729	
Difference as % of Supply	84.8%	77.7%	77.1%	69.9%	
Difference as % of Demand	558.2%	347.8%	356.1%	232.4%	

Units are in acre-feet per year.

Table 33
Supply and demand comparison — single dry year

	2015	2020	2025	2030	2035 - opt
Supply totals[1,2]	84,000	84,000	84,000	84,000	
Demand totals[2,3,4]	12,762	18,759	19,196	25,271	
Difference	71,238	65,241	64,804	58,729	
Difference as % of Supply	84.8%	77.7%	77.1%	69.9%	
Difference as % of Demand	558.2%	347.8%	337.6%	232.4%	

Units are in acre-feet per year.
[1] Consider the same sources as in Table 16. If new sources of
[2] Provide in the text of the UWMP text that discusses how single-dry-year water supply volumes were determined.
[3] Consider the same demands as in Table 3. If new water demands are anticipated, add a
[4] The urban water target determined in this UWMP will be considered when developing the 2020 water demands included in this table.

Table 34
Supply and demand comparison — multiple dry-year events

		2015	2020	2025	2030	2035 - opt
Multiple-dry year first year supply	**Supply totals**[1,2]	84,000	84,000	84,000	84,000	
	Demand totals[2,]	12,762	18,759	19,196	25,271	
	Difference	71,238	65,241	64,804	58,729	
	Difference as % of Supply	84.8%	77.7%	77.1%	69.9%	
	Difference as % of Demand	558.2%	347.8%	337.6%	232.4%	
Multiple-dry year second year supply	**Supply totals**[1,2]	84,000	84,000	84,000	84,000	
	Demand totals[2]	12,762	18,759	19,196	25,271	
	Difference	71,238	65,241	64,804	58,729	
	Difference as % of Supply	84.8%	77.0%	77.1%	69.9%	
	Difference as % of Demand	558.2%	347.8%	337.6%	232.4%	
Multiple-dry year third year supply	**Supply totals**[1,2]	84,000	84,000	84,000	84,000	
	Demand totals[2,]	12,762	18,759	19,196	25,271	
	Difference	71,238	65,241	64,804	58,729	
	Difference as % of Supply	84.8%	77.7%	77.1%	69.9%	
	Difference as % of Demand	558.2%	347.8%	337.6%	232.4%	

Units are in acre-feet per year.
[1] Consider the same sources as in Table 16. If new sources of water are planned, add a column to the table and specify the source, timing, and amount of water.
[2] Provide in the text of the UWMP text that discusses how single-dry-year water supply volumes were determined.
[3] Consider the same demands as in Table 3. If new water demands are anticipated, add a column to the table and specify the source, timing, and amount of water.
[4] The urban water target determined in this UWMP will be considered when developing the 2020 water demands included in this table.

Table 35
Water shortage contingency — rationing stages to address water supply shortages

Stage No.	Water Supply Conditions	% Shortage
Stage 1	Controlled Release From Storage	
Stage 2	Optimize Available Supply - Voluntary Rationing	0%-9%
Stage 3	General Reduction	10%-15%
Stage 4	Usage Allocations	16%-30%
Stage 5	Rationing	50%

[1] One of the stages of action must be designed to address a 50 percent reduction in water supply.

Table 36
Water shortage contingency — mandatory prohibitions

Examples of Prohibitions	Stage When Prohibition
Using potable water for street washing	ıred Shortage
Vehicle Washing	ıred Shortage
Swimming Pool Filling	ıred Shortage
Vegetation Watering	
Other (name prohibition)	
Other (name prohibition)	
Other (name prohibition)	

Table 37 Water shortage contingency — consumption reduction methods		
Consumption Reduction Methods	**Stage When Method Takes Effect**	**Projected Reduction (%)**
City Imposed Reductions	ed Shortage	10%
name method		
name method		
name method		
name method		
name method		

Table 38 Water shortage contingency — penalties and charges		
Penalties or Charges	**Stage When Penalty Takes Effect**	
Water Waste $50.00	eclared Shortage	
Nonessential Uses $50.00	eclared Shortage	
Other (name penalties or charges)		
Other (name penalties or charges)		
Other (name penalties or charges)		
Other (name penalties or charges)		
Other (name penalties or charges)		
Other (name penalties or charges)		